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Application No. 10/750,796
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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently Amended): Method for controlling at least one process parameter while processing a molten glass, comprising:

measuring an electrical resistance of the molten glass with at least one sensor comprising an inner tube connected to a first electrode and an outer tube connected to a second electrode, to obtain an electrical resistance measurement; and

adjusting at least one process parameter based on the electrical resistance measurement.

Claim 2 (Original): The method of claim 1, wherein the step of adjusting the at least one process parameter is effective to control a characteristic of the molten glass.

Claim 3 (Original): The method of claim 2, wherein the step of adjusting the at least one process parameter is effective to control a viscosity of the molten glass.

Claim 4 (Canceled)

Claim 5 (Original): The method of claim 1, wherein the at least one process parameter is controlled during a process for forming the molten glass, wherein the process comprises melting a raw material in a furnace to form the molten glass.

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Claim 6 (Original): The method of claim 5, wherein after formation of the molten glass, the molten glass is conveyed to an apparatus for forming a glass fiber from the molten glass.

Claim 7 (Original): The method of claim 1, wherein the measuring and adjusting steps are conducted prior to conveying the molten glass to an apparatus for forming a glass fiber from the molten glass.

Claim 8 (Original): The method of claim 1, wherein the step of adjusting the at least one process parameter comprises increasing or decreasing a temperature setpoint in the processing of the molten glass.

Claim 9 (Original): The method of claim 1, wherein the molten glass is present in an enclosure, and the step of adjusting the at least one process parameter comprises increasing or decreasing an amount of heat that the enclosure provides to the molten glass.

Claim 10 (Original): The method of claim 5, wherein the step of adjusting the at least one process parameter comprises altering a composition of the raw material used to form the molten glass.

Claim 11 (Original): The method of claim 1, wherein the step of adjusting the at least one process parameter is effective to maintain the electrical resistance of the molten glass in a predetermined range or at a predetermined level.

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Claim 12 (Original): The method of claim 1, wherein a plurality of process parameters are adjusted based on the electrical resistance measurement.

Claim 13 (New): The method of claim 1, wherein the sensor further comprises a substantially non-conductive material positioned between the inner and outer tubes.

Claim 14 (New): The method of claim 13, wherein the substantially non-conductive material is a ceramic.

Claim 15 (New): The method of claim 1, wherein the inner tube of the sensor is longer than the outer tube of the sensor.

Claim 16 (New): The method of claim 1, wherein the sensor is positioned above the molten glass and extends down into the molten glass.